

AMENDMENTS TO THE SPECIFICATION

Please replace the title on page 1 of the specification with the following:

Methods for Ultrasound Visualization of a Vessel with Location and Cycle
Information

Please replace the paragraph on page 4, lines 8-12 of the specification with the following:

As has already been mentioned, the causes of the cyclic intrinsic movement of vessels are primarily the heartbeat and breathing. The device according to the first and/or second aspect of the invention therefore preferably comprises an electrocardiograph for recording a (electrical) parameter that characterizes the heart phase and/or a breathing sensor (14) for recording a parameter that characterizes the breathing phase.

Please replace the abstract on page 13 with the following paragraph:

~~The invention relates to a device and a method Methods for displaying a vessel [[(2)]] with the aid of intravascular ultrasound images and current location and cycle information provided by detectors and sensors [[(1)]].~~ A sequence of intravascular ultrasound images ~~-(I(E,x))~~ is generated by means of a probe (5) and stored in a memory (10) in a manner ~~are stored and~~ indexed by the associated location (x) where they were generated and also the associated ~~and~~ by heartbeat phase (E) ~~and/or and~~ breathing phase. During a subsequent medical intervention, those ultrasound images (I₁, I₂, I₃) ~~which best that~~ correspond to the heartbeat phase of a current fluoroscopic image ~~[(A₀)]~~ or belong to the current stopping phase and location of ~~an object of interest such as a catheter~~ ~~[(13)]~~ can be selected from the memory (10) and displayed on a monitor ~~in real time along with an x-ray image of the vessel, the display showing the geometric position of the ultrasound images with reference to the x-ray image~~ ~~[(12)]~~.